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Total Number of Pages in This Submission

Application Number	09/848,966
Filing Date	May 4, 2001
First Named Inventor	Richard L. CUNNINGHAM
Art Unit	2673
Examiner Name	Nitin Patel
Attorney Docket Number	IMMR-IMD0008 (034701-059)

ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
 - ☐ Fee Attached
- ☐ Amendment / Reply
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
 - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
 - ☐ Petition to Convert to a Provisional Application
 - ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
 - ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
Form PTO 1449; 136 pieces cited art; Return Postcard

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Thelen Reid & Priest LLP		
Signature			
Printed Name	Suvashis Bhattacharya		
Date	3/16/06	Reg. No.	46,554

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Kathleen K. Muto	Date	3-16-06

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Richard L. CUNNINGHAM
SERIAL NO.: 09/848,966
FILED: May 4, 2001
TITLE: HAPTIC INTERFACE FOR PALPATION SIMULATION
EXAMINER: Nitin Patel
ART UNIT: 2673

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date: 3-16-06

Name: Kathleen K. Muto
Kathleen K. Muto

Mail Stop: Amendment
COMMISSIONER FOR PATENTS
P.O. Box 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant hereby submits this Information Disclosure Statement (IDS) including a Form PTO-1449 containing a list of references which may be material to the examination of the above-referenced application. This submission is not to be construed as a representation that a prior art search has been conducted, that additional information material to the examination of this application does not exist, or that any one or more of the listed references constitutes prior art.

The Examiner is urged to carefully consider this Information Disclosure Statement and all the listed references, and to indicate same by initialing the appropriate portion(s) of the Form PTO-1449 and forwarding an initialed copy to applicant.

If this box ☐ is checked, this application was filed after June 30, 2003 and qualifies for the blanket waiver of deposit of copies of U.S. Patents and U.S. Patent Application Publications

in accordance with the written waiver of 37 CFR §1.98 (a)(2)(i) Official Gazette Published in Official Gazette Notices of August 5, 2003 (1273OG55). Accordingly, such copies are not submitted.

I

This statement is filed pursuant to **(CHECK ONE BOX)**:



37 C.F.R. § 1.97(b).

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
- (3) before the mailing date of a first office action on the merits; **or**
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114, **whichever event occurs last.**

Accordingly, this information disclosure statement requires no fee and no certification.



37 C.F.R. § 1.97(c).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97(b), but **before** the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; **or**
- (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); **or**
- (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).



37 C.F.R. § 1.97(d).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); **and**
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. §1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. **To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.**

II

Fees Due (CHECK ONE BOX):

- ☒ No fee is due.
- ☐ The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).

III

Certification (CHECK ONE BOX):


- ☒ No certification is necessary.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies:
That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:
No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this information disclosure statement.

IV

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

Respectfully submitted,
THELEN REID & PRIEST LLP

Dated: March 16, 2006



Suvashis Bhattacharya
Reg. No. 46,554

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Form PTO 1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark OfficesAtty. Docket No.
IMMR-IMMD008
(034701-059)Serial No.
09/848,966

Information Disclosure Statement by Applicant

Applicant:
Richard L. CUNNINGHAM

(Use several sheets if necessary)

Filed:
05/04/2001Group:
2673

U.S. Patent Documents

Init.	Document No.	Date	Name	Class	Subclass	Date
	3226846	01/04/1966	Wood			08/03/1964
	3520060	07/14/1970	Crabtree et al.			07/01/1969
	3775865	12/04/1973	Rowan			07/24/1972
	4052981	10/11/1977	Bachmann			08/03/1976
	4321047	03/23/1982	Landis			06/05/1980
	4360345	11/23/1982	Hon			07/14/1980
	4391282	07/05/1983	Ando et al.			10/24/1979
	4439162	03/27/1984	Blaine			01/21/1982
	4459113	07/10/1984	Boscaro Gatti et al.			08/31/1981
	4638798	01/27/1987	Sheldon et al.			09/10/1980

U.S. Patent Application Publications

Init.	Document No.	Date	Name	Class	Subclass	Date
	2001/0016804MED	8/23/01	Cunningham et al.			9/4/1996

Foreign Documents

Translation

Init.	Document No.	Date	Country	Class	Subclass	Yes	No
	EP 0 265 011 B1	10/12/87	EPO			N/A	
	EP 0 349 086 A1	06/27/89	EPO			N/A	
	H2-185278	07/19/90	Japan			X	
	92/00559	01/09/92	WO			N/A	
	H4-8381	01/13/92	Japan			X	
	H5-192449	08/03/93	Japan			X	
	EP 0 607 580 A1	12/16/93	EPO			N/A	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

	Bostrom, Mikael, et al.; "Design of An Interactive Lumbar Puncture Simulator With Tactile Feedback"; VR, Sept. 1993; pp. 280-286.
	Dinsmore, Michael, et al.; "Virtual Reality Training Simulation for Palpation of Subsurface Tumors"; Computer Society Press; not earlier than January 1997; pp. 54-60.
	Erdman, A.G., et al.; "Kinematic and Kinetic Analysis of the Human Wrist by Stereoscopic Instrumentation"; J. Biomechanical Engineering; Vol. 101, No. 2; May 1979; pp. 124-133.

Examiner

Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Offices				Atty. Docket No. IMMR-IMD0008 (034701-059)		Serial No. 09/848,966	
Information Disclosure Statement by Applicant				Applicant: Richard L. CUNNINGHAM			
(Use several sheets if necessary)				Filed: 05/04/2001		Group: 2673	
U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Date
		4642055	02/10/1987	Saliterman			06/24/1985
		4664130	05/12/1987	Gracovetsky			06/06/1985
		4685464	08/11/1987	Goldberger et al.			07/05/1985
		4726772	02/23/1988	Amplatz			12/01/1986
		4726772	02/23/1988	Amplatz			12/01/1986
		4750487	06/14/1988	Zanetti			11/24/1986
		4773865	09/27/1988	Baldwin			06/26/1987
		4789340	12/06/1988	Zikria			08/18/1987
		4791934	12/20/1988	Brunnett			08/07/1986
		4825872	05/02/1989	Tan et al.			08/05/1988
		4907973	03/13/1990	Hon			11/14/1988
		5050608	09/24/1991	Watanabe et al.			07/12/1988
		5086401	02/04/1992	Glassman et al.			05/11/1990
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
		EP 0 626 634 A2	05/11/94	EPO			N/A
		95/20788	08/03/95	WO			N/A
		H7-24147	01/27/95	Japan			X
		97/31333	08/28/97	WO			N/A
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Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
		Gibson, Sarah, et al.; "Simulating Arthroscopic Knee Surgery using Volumetric Object Representations, Real-Time Volume Rendering and Haptic Feedback"; Lecture Notes in Computer Science, 1205: October, 1996; pp. 369-374					
		Marcus, Beth; "Touch Feedback In Surgery"; SIG-Advanced Applications, Inc.; Sept. 1994; pp. 96-97.					
		Marcus, Beth; "Hands On: Haptic Feedback in Surgical Simulation"; Medicine Meets Virtual Reality II; Interactive Technology & Healthcare: Visionary Applications for Simulation Visualization Robotics; at least as early as January, 1994; pp. 134-139.					
		Kühnapfel, U.; "Models for simulating instrument-tissue interactions"; 9 th Medicine Meets Virtual Reality 2001 (MMVR 2001); January 2001; 40 pgs.					
		Wang, Yong-Jun, et al.; "Force Feedback Assisted Nasoscope Virtual Surgery Simulator"; J. System Simulation, Vol. 13, No. 3; May 2001; pp. 404-407.					
Examiner					Date Considered		
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.							

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Offices				Atty. Docket No. CAP-001 (036310-002)		Serial No. 10/925,330	
Information Disclosure Statement by Applicant				Applicant: Pengcheng Jia			
(Use several sheets if necessary)				Filed: 8/23/2004		Group: 2817	
U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Date
		5112228	05/12/1992	Zouras			11/13/1989
		5121747	06/16/1992	Andrews			11/06/1985
		5131844	07/21/1992	Marinaccio et al.			04/08/1991
		5137458	08/11/1992	Ungs et al.			01/11/1991
		5149270	09/22/1992	McKeown			10/29/1990
		5205289	04/27/1993	Hardy et al.			12/23/1988
		5217003	06/08/1993	Wilk			03/18/1991
		5230623	07/27/1993	Guthrie et al.			12/10/1991
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		5273038	12/28/1993	Beaven			07/09/1990
		5275174	01/04/1994	Cook			10/30/1985
		5290276	03/01/1994	Sewell, Jr.			02/06/1992
		5295694	03/22/1994	Levin			10/27/1992
		5320537	06/14/1994	Watson			03/16/1993
		5333106	07/26/1994	Lanpher et al.			10/09/1992
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		5339723	08/23/1994	Huitema			09/30/1993
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		5376007	12/27/1994	Zirm			12/19/1991
		5385474	01/31/1995	Brindle			12/09/1992
Foreign Documents							
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
Examiner					Date Considered		
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.							

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Offices				Atty. Docket No. IMMR-IMMD008 (034701-059)		Serial No. 09/848,966		
Information Disclosure Statement by Applicant				Applicant: Richard L. CUNNINGHAM				
(Use several sheets if necessary)				Filed: 05/04/2001		Group: 2673		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Date	
		5391081	02/21/1995	Lampotang et al.			05/13/1992	
		5396895	03/14/1995	Takashima et al.			03/18/1991	
		5397323	03/14/1995	Taylor et al.			10/30/1992	
		5403191	04/04/1995	Touson			10/21/1991	
		5391081	02/21/1995	Lampotang et al.			05/13/1992	
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		5436542	07/25/1995	Petelin et al.			01/28/1994	
		5445166	08/29/1995	Taylor			06/13/1991	
		5454722	10/03/1995	Holland et al.			11/12/1993	
		5467763	11/21/1995	McMahon et al.			01/21/1992	
		5482472	01/09/1996	Garoni et al.			11/17/1993	
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		5518406	05/21/1996	Waters			11/24/1993	
		5546943	08/20/1996	Gould			12/09/1994	
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
Examiner					Date Considered			
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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Offices				Atty. Docket No. IMMR-IMMD008 (034701-059)		Serial No. 09/848,966		
Information Disclosure Statement by Applicant				Applicant: Richard L. CUNNINGHAM				
(Use several sheets if necessary)				Filed: 05/04/2001		Group: 2673		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Date	
		5593306	01/14/1997	Kohnke			10/19/1994	
		5598269	01/28/1997	Kitaevich et al.			05/12/1994	
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		5800179	09/01/1998	Bailey			07/23/1996	
		5808665	09/15/1998	Green			01/21/1992	
		5817107	10/06/1998	Schaller			12/28/1995	
		5853292	12/29/1998	Eggert et al.			05/08/1996	
		5855583	01/05/1999	Wang et al.			02/20/1996	
		5871017	02/16/1999	Mayer			10/15/1997	
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
Examiner					Date Considered			
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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Offices				Atty. Docket No. IMMR-IMMD008 (034701-059)		Serial No. 09/848,966		
Information Disclosure Statement by Applicant				Applicant: Richard L. CUNNINGHAM				
(Use several sheets if necessary)				Filed: 05/04/2001		Group: 2673		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Date	
		5873731	02/23/1999	Prendergast			10/20/1995	
		5873732	02/23/1999	Hasson			09/26/1997	
		5882206	03/16/1999	Gillio			03/29/1995	
		5882207	03/16/1999	Lampotang et al.			05/13/1992	
		5909380	06/01/1999	Dubois et al.			05/04/1994	
		5928138	07/27/1999	Knight et al.			08/15/1996	
		5945056	08/31/1999	Day et al.			05/28/1997	
		5950629	09/14/1999	Taylor et al.			06/13/1991	
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		6006127	12/21/1999	Van Der Brug et al.			02/28/1997	
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		6038488	03/14/2000	Barnes et al.			02/27/1997	
		6062865	05/16/2000	Bailey			07/23/1996	
		6077082	06/20/2000	Gibson et al.			02/02/1998	
		6086528	07/11/2000	Adair			09/11/1997	
		6106301	08/22/2000	Merril			09/04/1996	
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
Examiner					Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.								

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